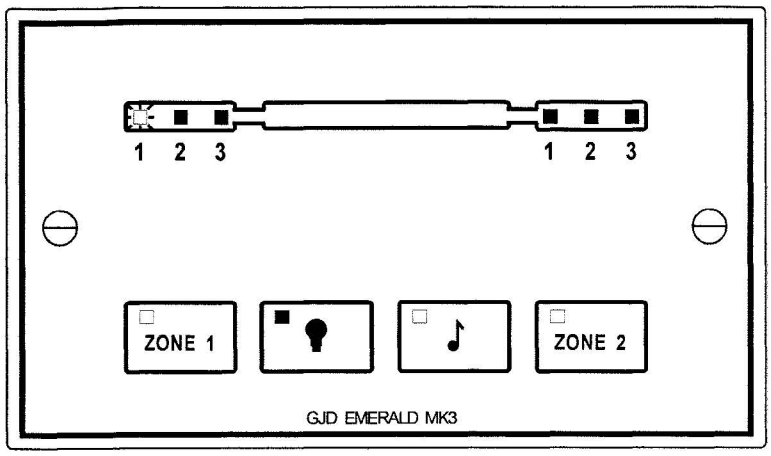
GJD EMERALD MK3 LIGHTING CONTROLLER



INSTALLATION MANUAL

PART NO: GJD010

THE GJD EMERALD IS A DUAL AREA SECURITY LIGHTING CONTROLLER WHICH ENABLES EXTERNAL AREAS TO BE ACCURATELY MONITORED.

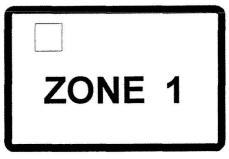
IT AUTOMATICALLY SWITCHES UP TO 3000 WATTS OF LIGHTING AT NIGHT FOR A PRE-SET PERIOD AND CAN BE MANUALLY OVERRIDDEN WHEN REQUIRED. THE CONTROLLER INCORPORATES AN AUDIBLE WARNING TONE AND FEATURES SIX DETECTOR INDICATORS WHICH ILLUMINATE WHEN ACTIVATED BY DETECTION DAY AND NIGHT.

SPECIFICATION

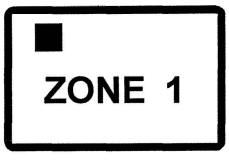
SUPPLY:	230Vac 50Hz via ELCB/MCB. - unit fused at 13A
12VDC @ 100mA for	GJD Opal XL (6mA) or Elite Detectors (10mA) Optional external 12VDC piezo sounder upto 50mA
INDICATION:	Six 24 hour detector indicators which pulse during detection and are steady after detection for the duration of the light on timer setting.
AUDIBLE:	Internal warning tone which sounds on detection day and night, and is button selectable. It has a steady tone for zone one and a pulsed tone for zone two.
CONTROL:	Controls upto 12 x GJD detectors. Switches two independent areas of lighting with manual override when required.
OPTIONS:	Ability to link both lighting areas together. Ability to have a timed auxiliary output. Ability to activate lighting when linked to an intruder alarm panel.
DIMENSIONS:	146(W) x 86(H) x 56(D) mm Weight 507gm
MOUNTING:	Indoor use only. Mount in a clean dry location on a secure flat surface
TEMPERATURE:	-10 TO + 55 Centigrade
CE	Self contained - Class 2 independently mounted control.

When a detector is activated day or night the relevant detector indicator flickers and will remain on for the length of the timer setting. During darkness the lighting will be switched on automatically while the detector is receiving activation signals, and will automatically turn off after the preset timer period.

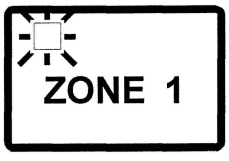
The 'Zone1' and 'Zone 2' green indicator have to be selected for automatically controlled lighting on detection during darkness.



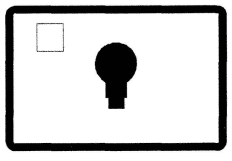
Green indicator is 'on'. This mode must be selected on both zones for automatic lighting during darkness.



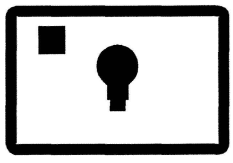
Indicator 'off'. Lighting and tone are switch off for this zone.



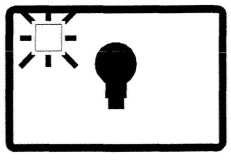
Green indicator flashing. A detector has activated the lighting for a zone.



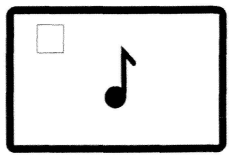
Manually selecting this yellow indicator will turn the lighting 'on' for both zones. Turning the indicator 'off' will return to automatic mode.



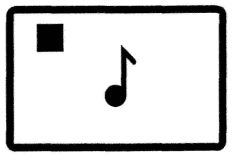
Indicator 'off'.



Yellow indicator flashing. A detection has automatically activated a lighting zone.



Red indicator 'on'. Audible warning tone selected.
Zone 1 and/or Zone 2 indicator to be selected to function.

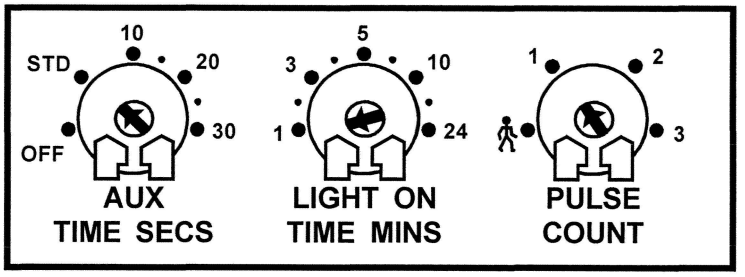


Indicator 'off' Audible warning tone is switched off for both zones.

ADJUSTMENT TO FACTORY SETTINGS:

When connecting the unit to the electrical supply or when the supply is interrupted, the indicators will flash for one minute whilst the system settles. Pressing any button during this time will start normal operation.

Internal adjustments panel
The factory settings are shown.



AUX - AUXILIARY OUTPUT (50mA maximum)

OFF	Internal sounder and auxiliary output disabled.
STD	Internal sounder and auxiliary output active and will emit a warning tone on each detection when the tone button is selected.
10-30 seconds	The auxiliary output time after last detection. The internal sounder is as the STD

LIGHT ON TIME IN MINUTES

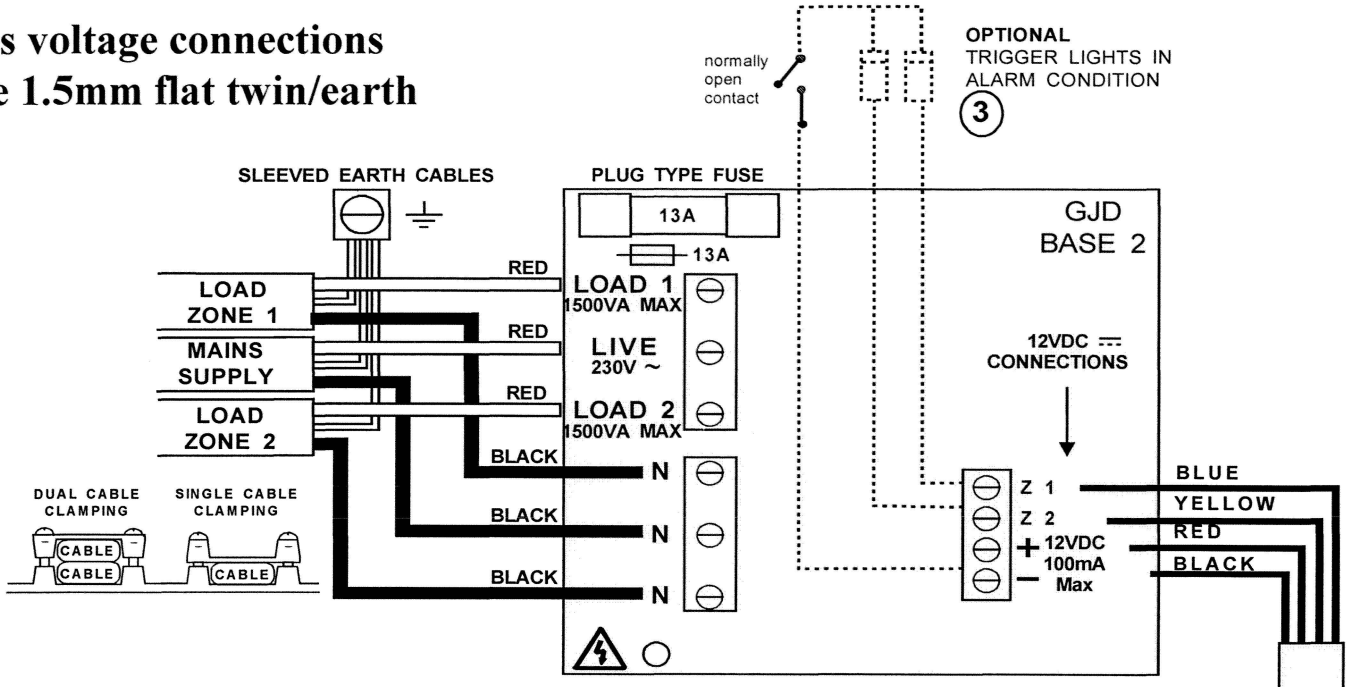
1 to 24 minutes	The length of the light on time after last detection during darkness. The red detector indicators will stay on for this time after the last detection day and night.

PULSE COUNT

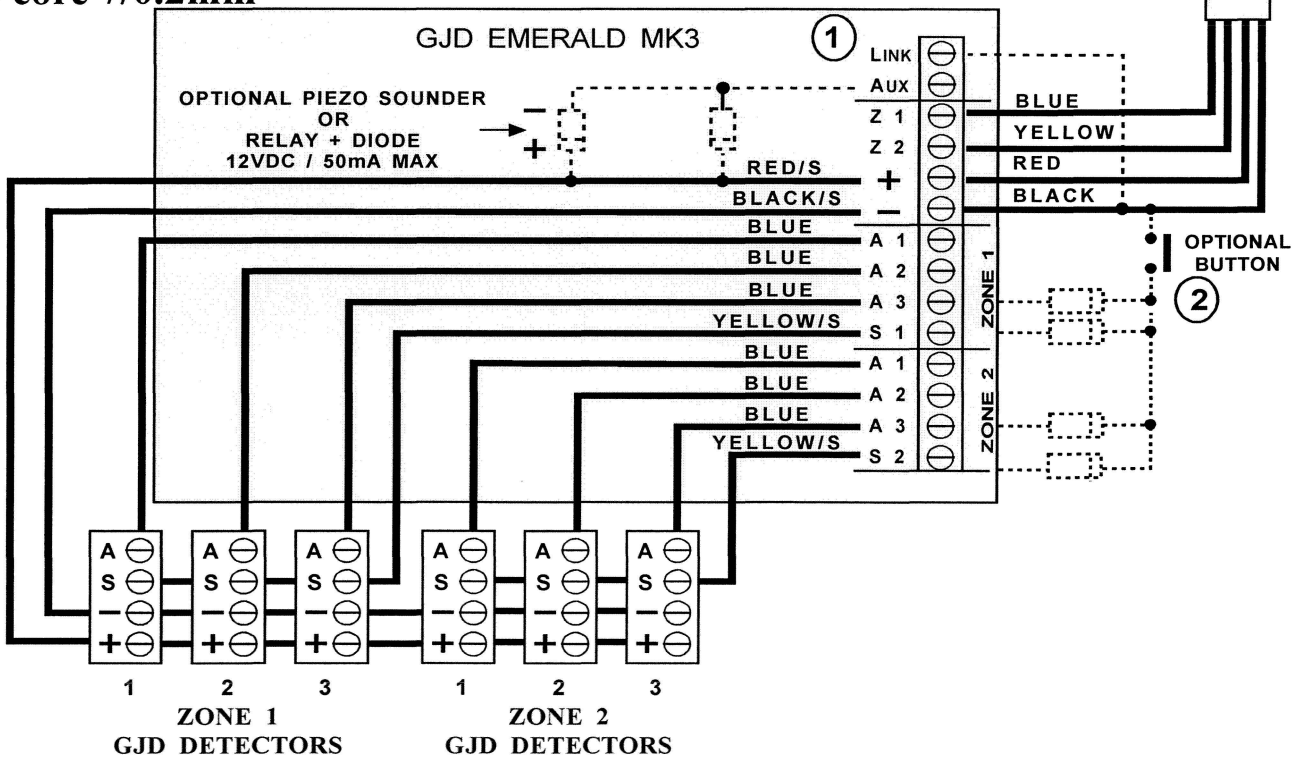
Walk test	Select this symbol to assist in location/alignment of the detector beams during daylight installations. When the detector beams are activated the external lights will stay on for a period of 6 seconds.
1, 2 or 3	After completing the 'walk test' function, set the pulse count to the required level. The pulse count is the number of detector beams that have to be crossed to trigger the system. 1 will give a fast response. 2 gives better immunity with good response. 3 gives highest immunity to false activations in poor environments but is less responsive.

CAUTION: TO BE INSTALLED BY QUALIFIED PERSONNEL ONLY:

Mains voltage connections
Cable 1.5mm flat twin/earth



Low voltage connections
Cable 4/6 core 7/0.2mm



(1) Link both lighting areas together (except in walk test) connect 'LINK' to '-'
(2) Remote triggering of lights for the timer period. Pulse Count '1'must be selected
(3) Activate zone lighting for alarm period when linked to an intruder alarm panel.
All diodes: IN4148, IN4002 etc